

# XTD12

# XTD12/A

# Deflector Line



## 2-way loudspeaker systems

### GENERAL INFORMATION

Extremely compact full range two-way loudspeaker systems, equipped with a very extended frequency response and excellent power handling (capable of generating pressures above 130 dB). They are particularly suitable for diffused and high-quality sound reinforcements, specially for fixed installations, HO.RE.CA., cinemas, multi-purpose halls, dance clubs and portable PA systems.

### COMPONENTS

XTD12 includes a 12" high power cone-shaped woofer with neodymium magnet and treated with waterproofing resins. The tweeter is composed of a constant directivity horn with 90°x50° dispersion, coupled with a 1.4" compression driver with titanium membrane. The crossover filter has been manufactured by using highly professional components such as air coils, high insulation capacitors and high-dissipation armoured resistors.

### CABINET

The cluster installation permits two different horizontal angles - 15° and 30° - thanks to the double slope of the side surface of the cabinet. An innovative bass-reflex configuration has been designed by X-Treme engineers due to the use of a *curved deflector* stably fixed to the cabinet, in the immediate vicinity of the woofer, which ensures more linearity in the air flow generated inside the cabinet and the duct. This is also possible thanks to the back body pillar (5 cm in thickness) together with the floor inclination (5 degrees) where the loudspeaker is set up; the wing profile of this device originates from specific research in the field of fluid dynamics with the goal of minimizing the internal turbulence in the speaker.

### VERSIONS

The XTD12/A bi-amplified version is available with an inside DSP (*Digital Signal Processor*) of 24 bit/96 kHz and dynamic range of up to 110 dBA. The 800+800 W amplifier comes with in-built switching technology. The DSP has 4 equalization presets, which can be selected via two switches positioned on the back board.

### TECHNICAL FEATURES

System configuration (XTD12)	<b>2-way loudspeaker system</b>
System configuration (XTD12/A)	<b>2-way active speaker</b>
Power handling RMS	<b>850 W</b>
Power handling Music	<b>1700 W</b>
Power handling Peak	<b>3400 W</b>
Frequency response (-3 dB)	<b>55±19k Hz</b>
Nominal impedance (XTD12)	<b>8 Ohm</b>
Dispersion angle (-6dB)	<b>90° horiz., 50° vert.</b>
Axial sensitivity (1W@1m)	<b>98 dB</b>
Continuous SPL (@1m)	<b>127 dB</b>
Peak SPL (@1m)	<b>133 dB</b>
Crossover frequency (XTD12)	<b>1.8k Hz</b>

### Amplifier data (XTD12/A)

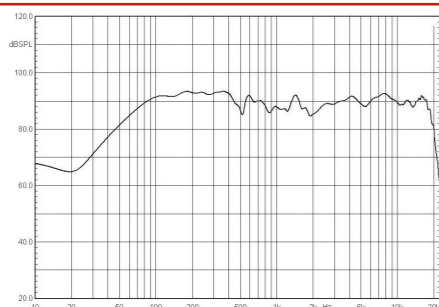
Input	<b>max +10 dBu - XLR, loop output</b>
Front panel indicators	<b>LED: power, signal/limit</b>
Input impedance	<b>5.5 kOhm unbal., 11 kOhm bal.</b>
DSP Processing	<b>24 bit/96kHz (4 select. preset)</b>
Output power rating (LF)	<b>800 WRMS @80hm - class D</b>
Output power rating (HF)	<b>800 WRMS @80hm - class D</b>
Power supply	<b>switching technology</b>
THD	<b>&lt;0.05% @1 kHz -3 dB output</b>
AC power connector	<b>Neutrik PowerCon</b>
AC voltage	<b>115/230 V ~ 45/65 Hz ± 10%</b>

### Transducers

LF sub system	<b>1x12" neodymium</b>
Nominal impedance	<b>8 Ohm</b>
Nominal power handling	<b>700 W</b>
Sensitivity (1W@1m)	<b>97 dB</b>
HF sub system	<b>1x1.4"</b>
Diaphragm	<b>DOME, titanium</b>
Voice coil	<b>3", aluminium</b>
Throat diameter	<b>1.4"</b>
Nominal impedance	<b>8 Ohm</b>
Nominal power handling	<b>110 W</b>
Sensitivity (1W@1m)	<b>107 dB</b>
HORN	<b>AWSH™</b>
Material	<b>aluminium</b>
Manufacturing process	<b>die casting</b>

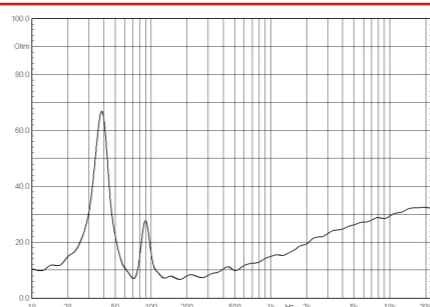
All measurements have been taken in the Sound Corporation research laboratories.

### Frequency response

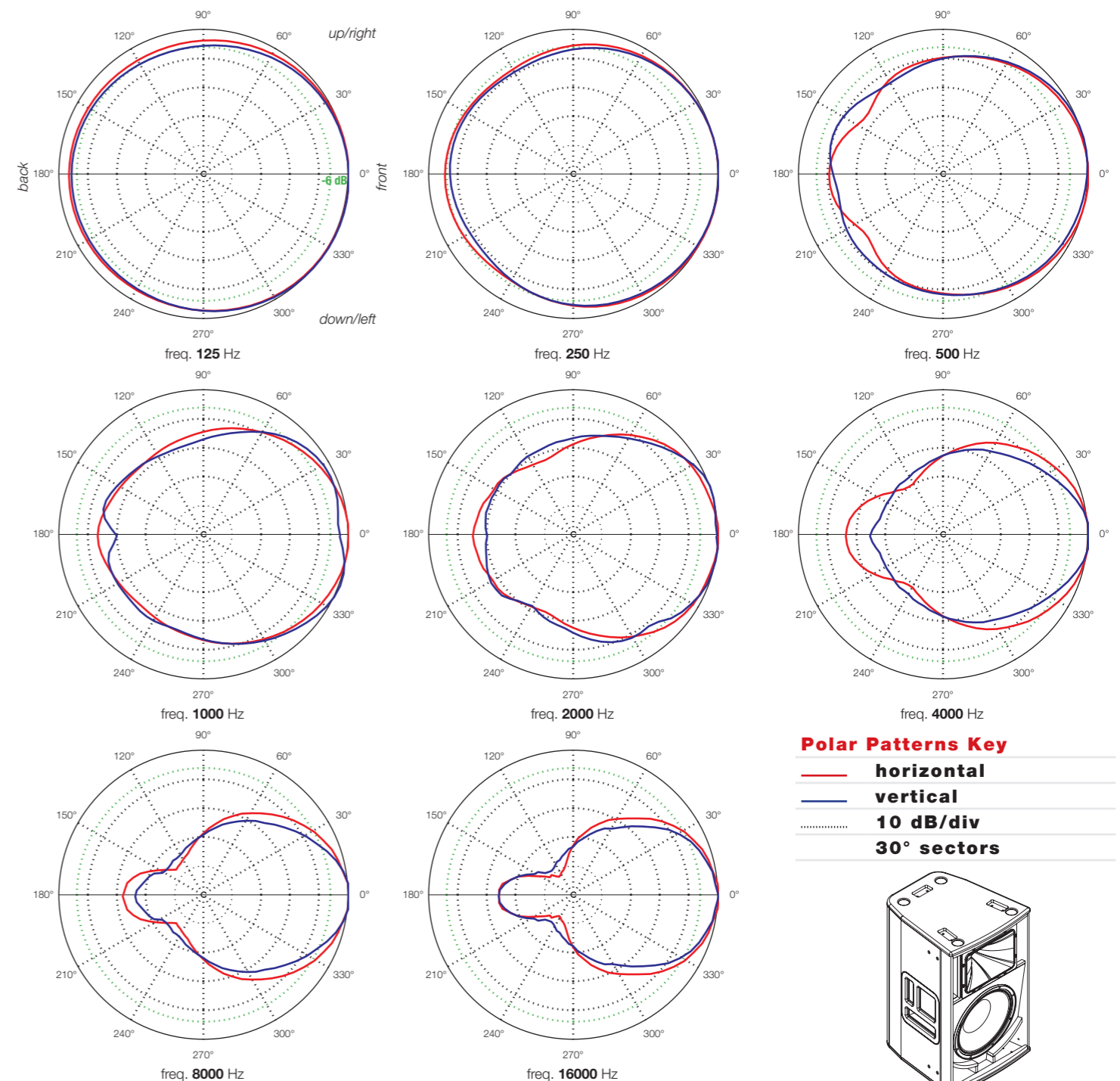


In compliance with European Standards **CE** - Certified by Italian Quality Institute

### Impedance response (XTD12)

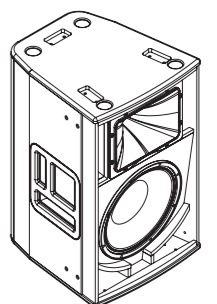


### XTD12 POLAR PATTERNS (normalized, ref. on axis, passive X-over)



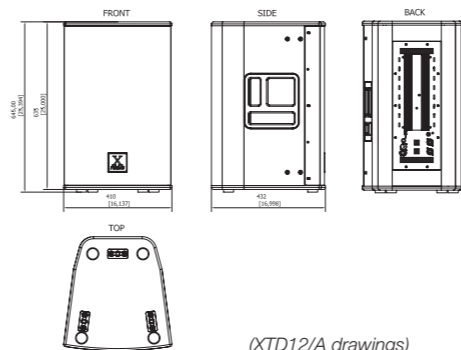
### Polar Patterns Key

— horizontal  
— vertical  
..... 10 dB/div  
30° sectors



### Physical Description

Input connectors (XTD12)	<b>2xNL4FC speakon</b>
Cabinet:	
material	<b>birch plywood</b>
additional device	<b>curved deflector with convex-concave shape</b>
Finish	<b>HDSC™</b>
Suspension system	<b>XT-KITDEF (3 flying tracks)</b>
Dimensions (WxHxD)	<b>410x635x432 mm</b>
Net weight (XTD12)	<b>31.5 kg</b>
Net weight (XTD12/A)	<b>33 kg</b>



(XTD12/A drawings)

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